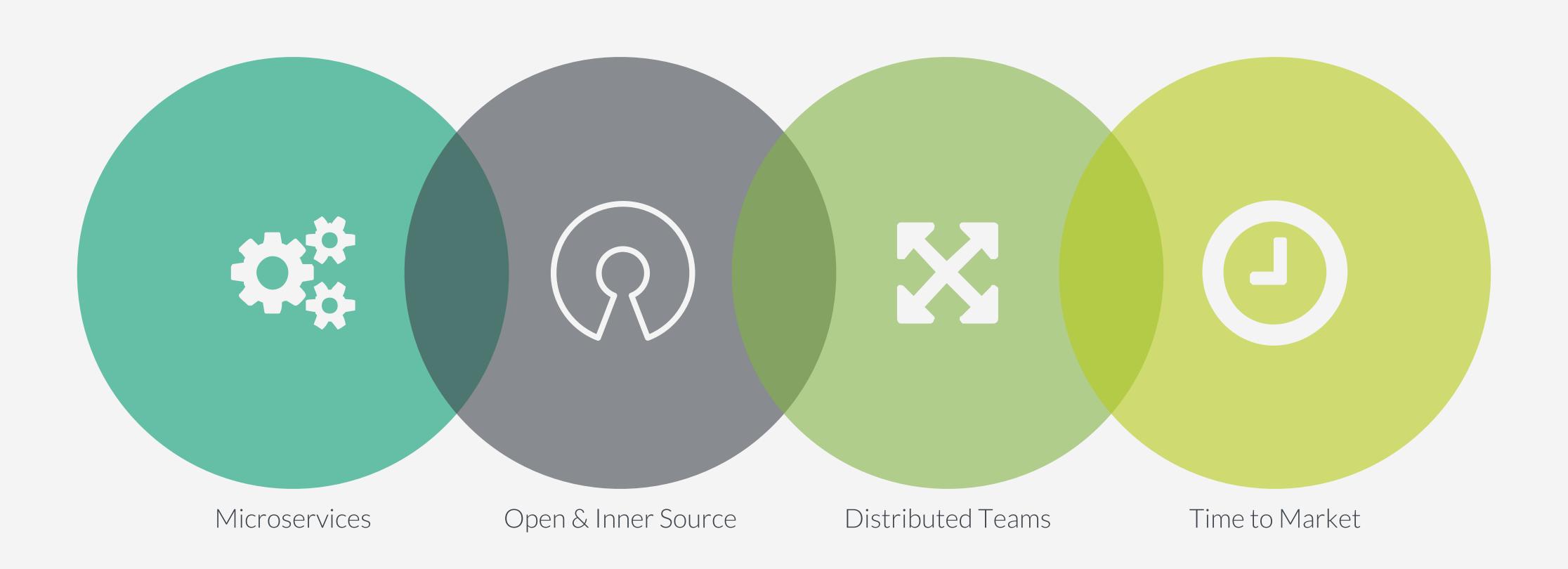


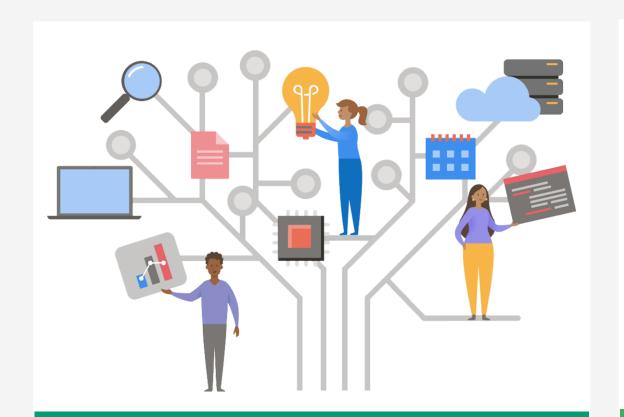
#### AGENDA

- 1. WHAT IS VS ONLINE?
- 2.SECURITY
- 3. CONFIGURATION
- 4. PRICING
- 5. Demo
- 6. Roadmap

# TRENDS



# WHATIS VS ONLINE?



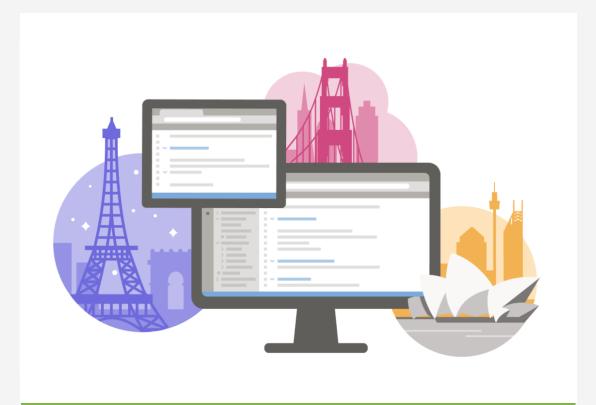
#### MANAGED ENVIRONMENTS FOR ANY PROJECT

Fully-managed, on-demand dev environments that dramatically reduce setup and maintenance



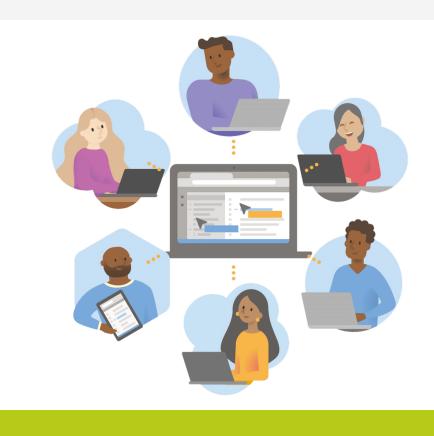
#### FEEL AT HOME EVEN WHEN AWAY

Environment requirements are auto-detected, but can be configured, and your settings, themes, Git identity, and dotfiles are roamed so the experience looks and feels like local



#### DEVELOP FROM ANYWHERE

Connect from anywhere: Visual Studio, Visual Studio Code, browser-based companion editor



#### SUPERCHARGED COLLABORATIVE DEVELOPMENT

Fully collaborative environment, complete with Al-assisted development support

### WHATISADEVENVIRONMENT?



### WHAT IS A DEV ENVIRONMENT?



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### WHATISADEVENVIRONMENT?



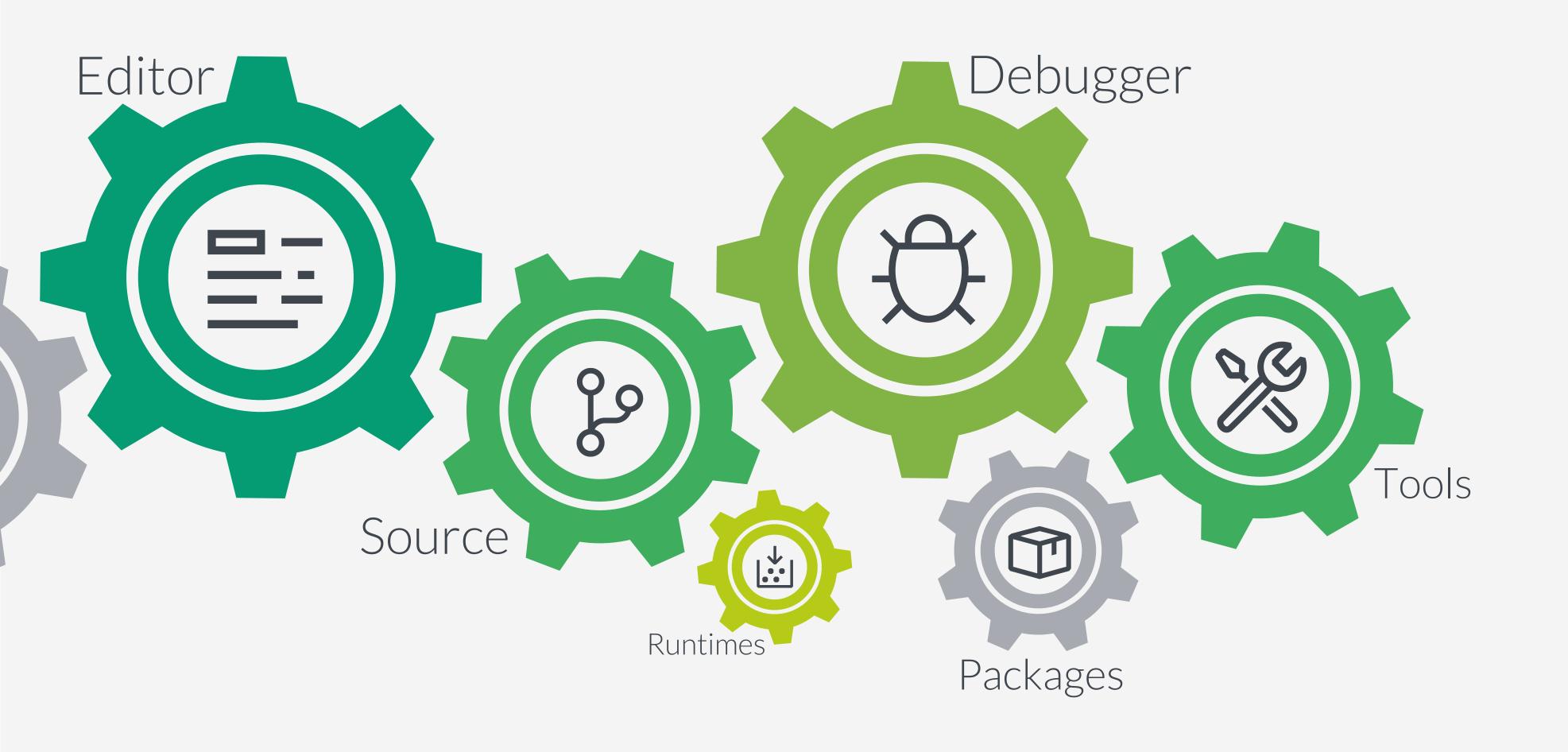
### WHATISADEVENVIRONMENT?



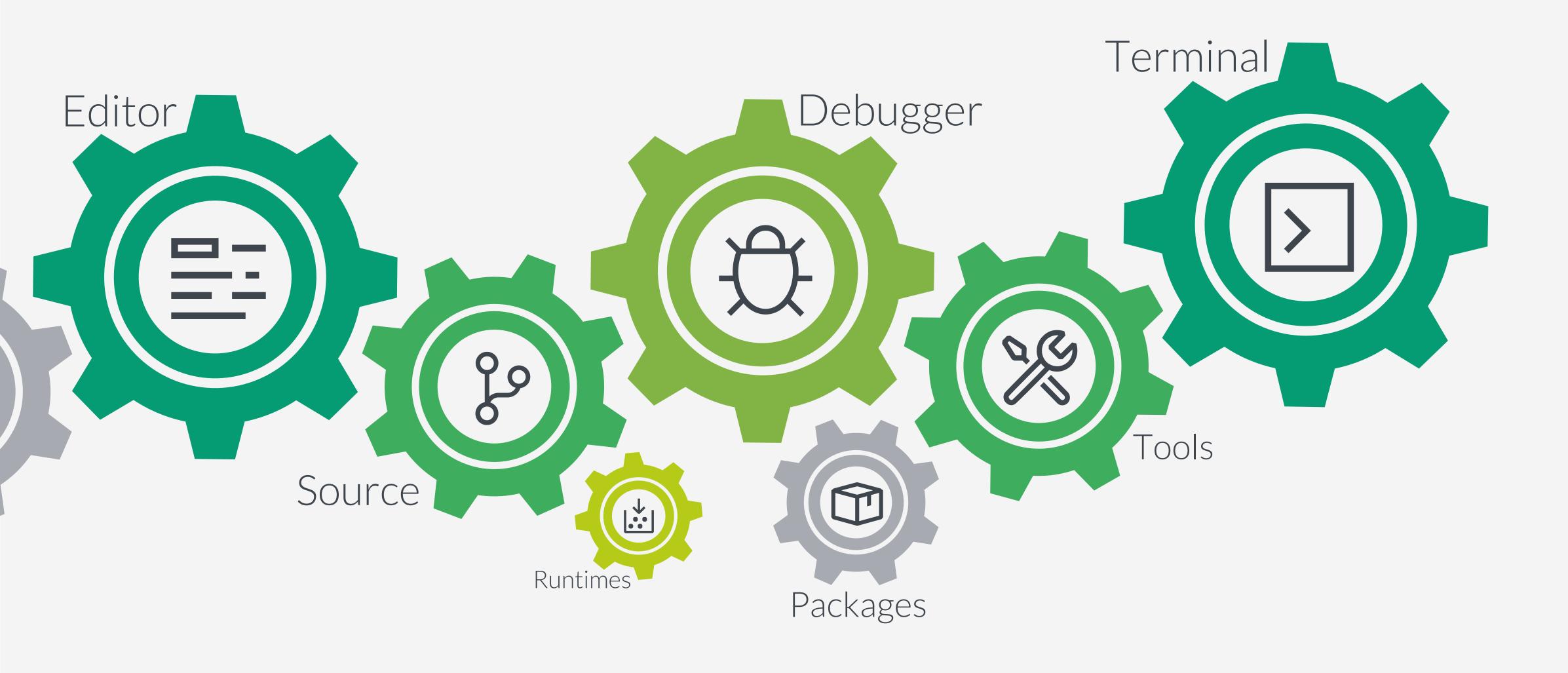
# WHAT IS A DEV ENVIRONMENT?



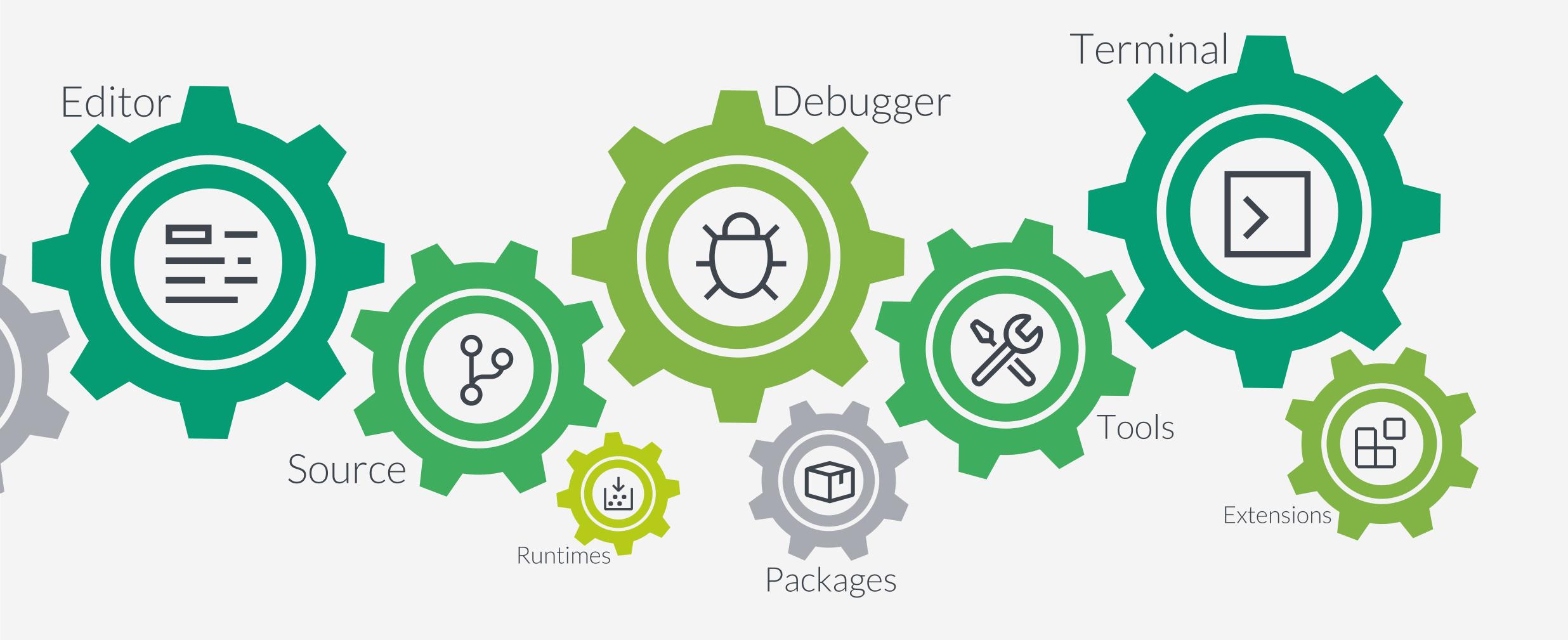
#### WHAT IS A DEV ENVIRONMENT?



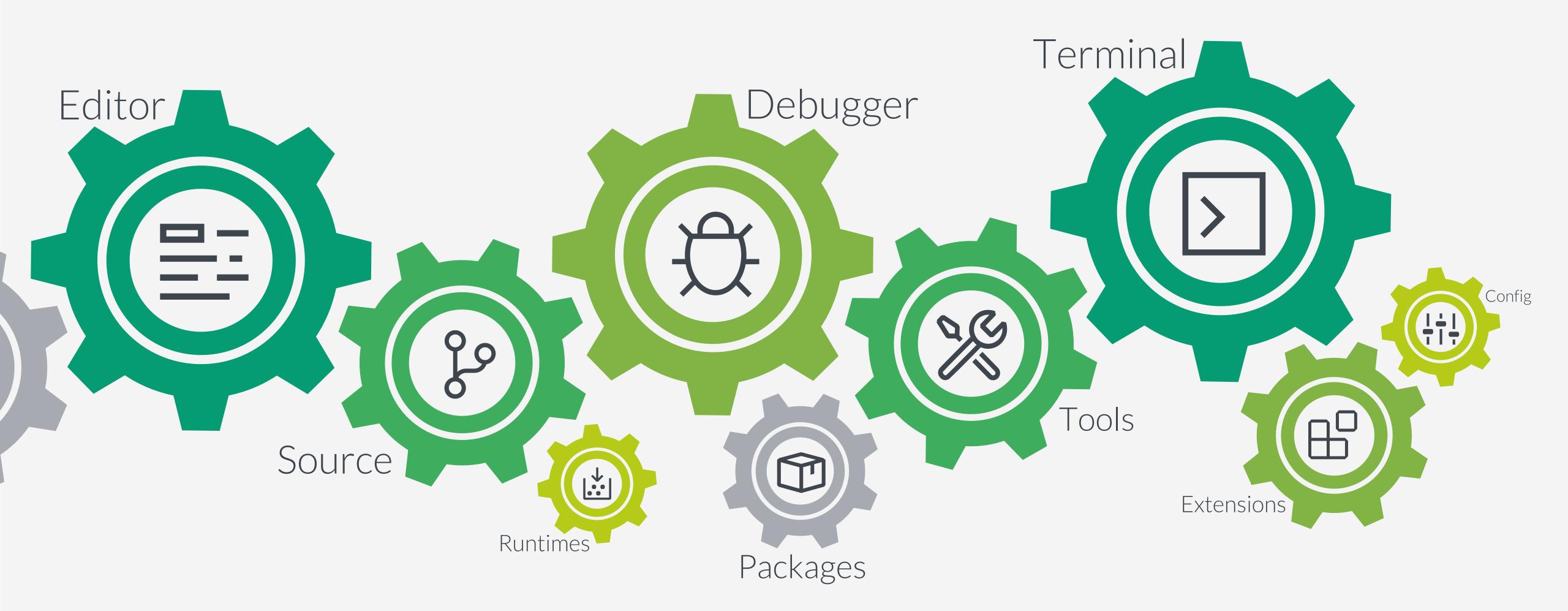
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# WHAT IS A DEV ENVIRONMENT?



### DEVENVIRONMENT REVIEW



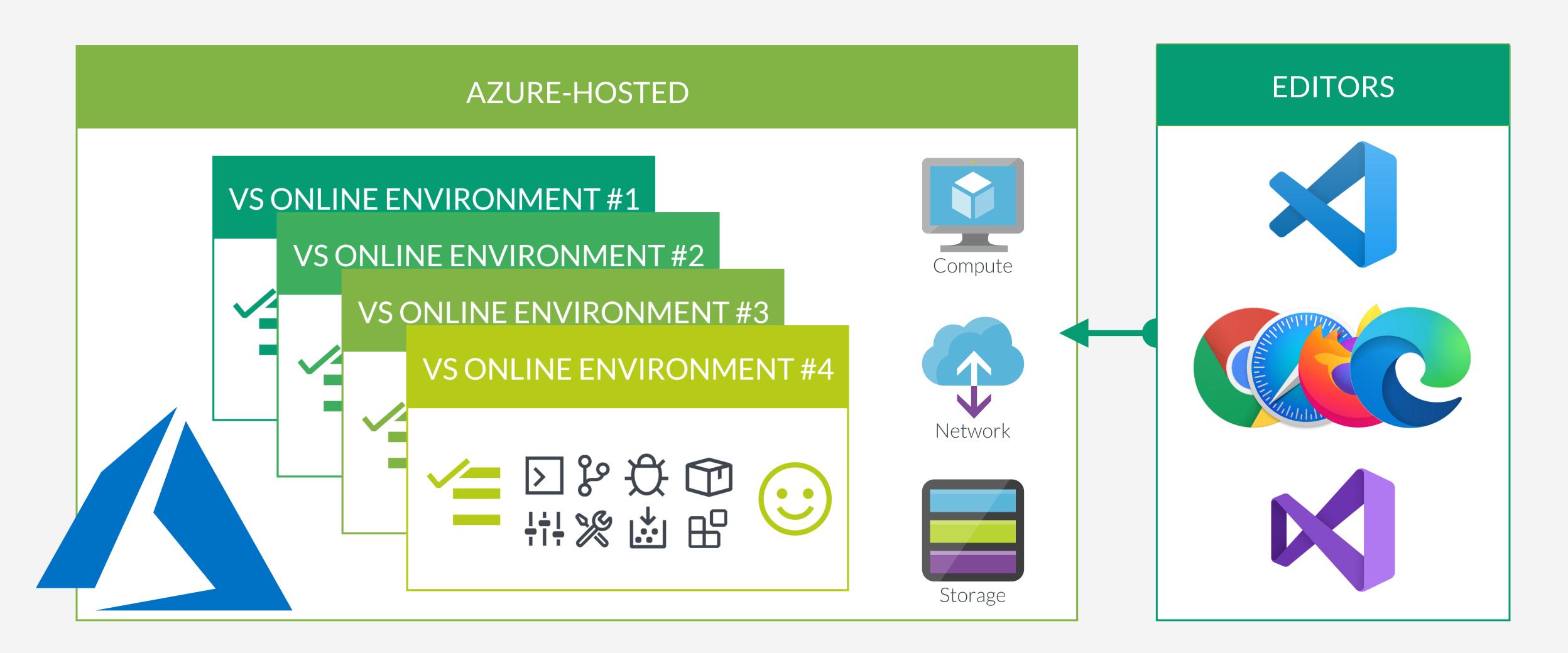
#### **CUSTOMIZED FOR YOUR PROJECT**

- 1 SOURCE
  - DEBUGGER
- 3 PACKAGES
- 4 EXTENSIONS

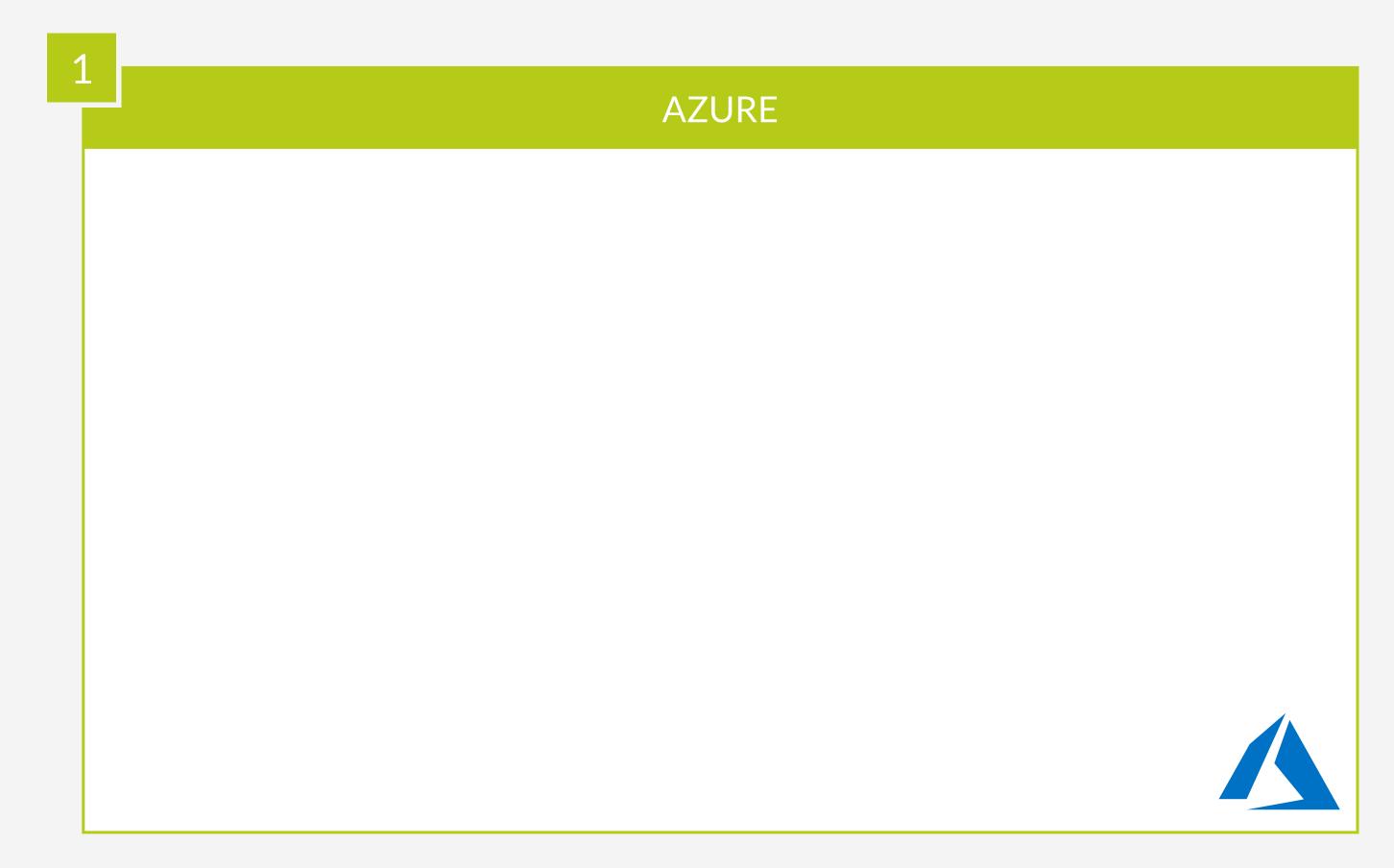
- 5 TERMINAL
- 6 RUNTIMES
- 7 TOOLS
- 8 CONFIG

PERSONALIZED FOR YOU

# VISUAL STUDIO ONLINE

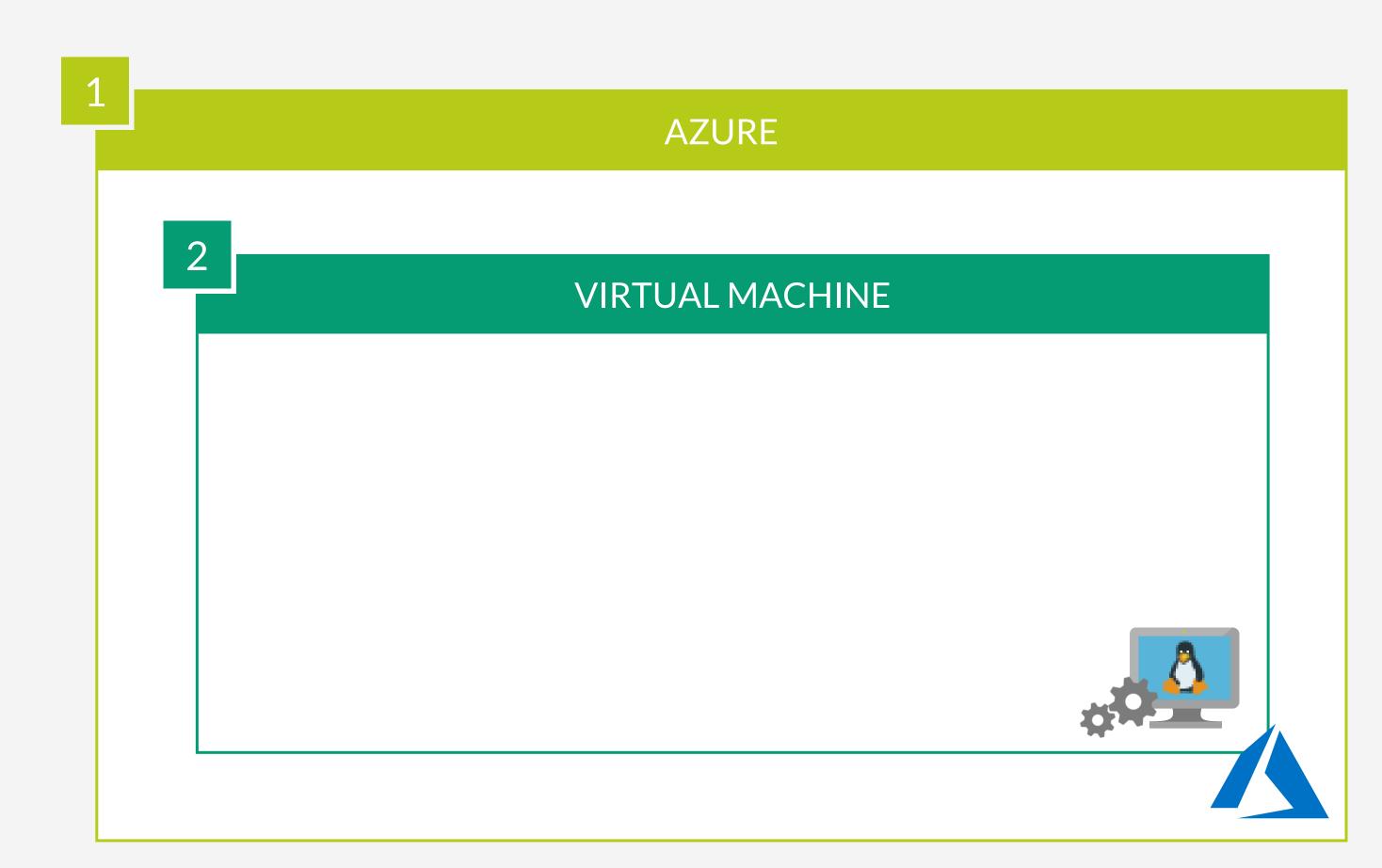


AZURE HOSTED
Environments are hosted in Azure, the most trusted cloud.

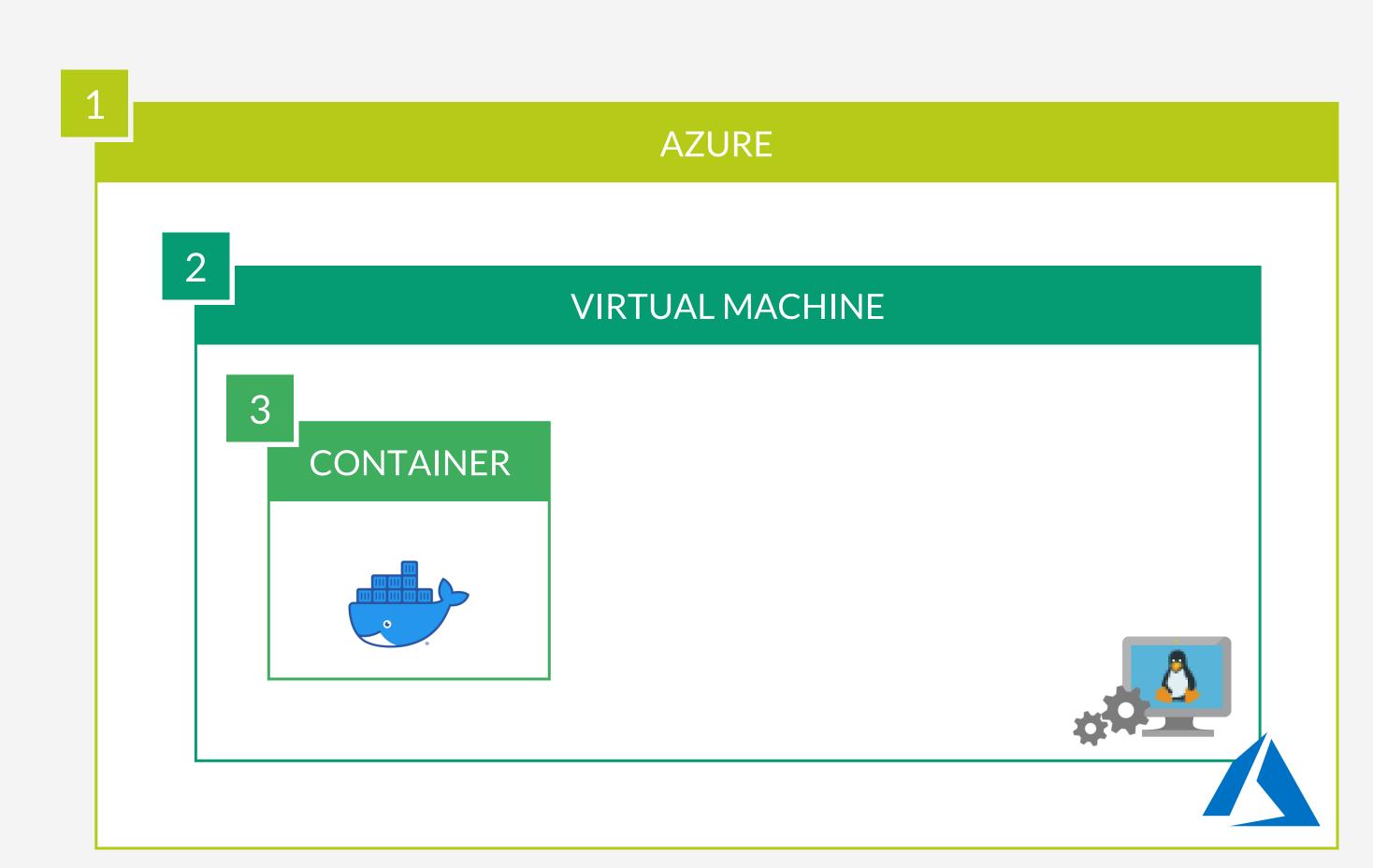




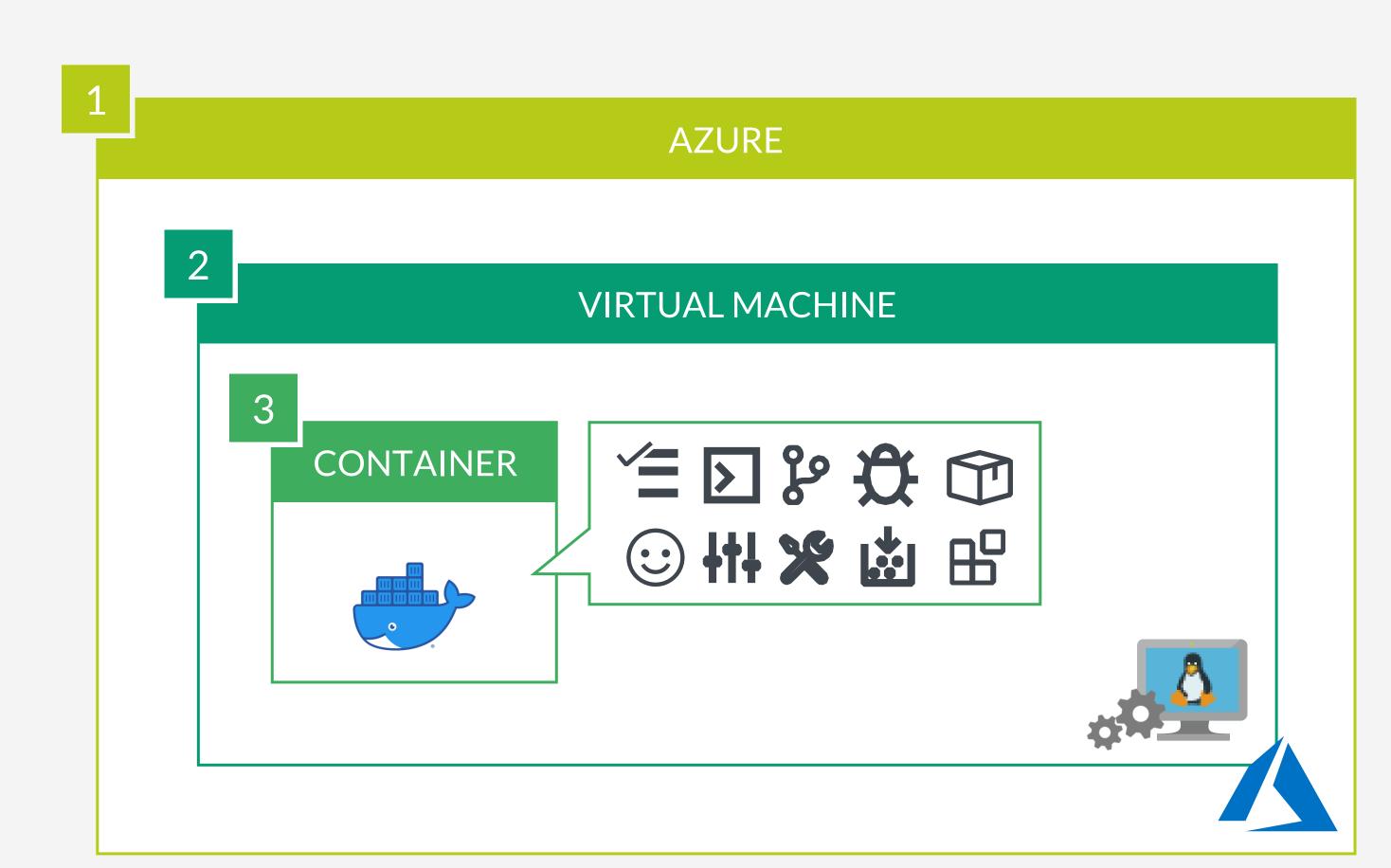
- AZURE HOSTED
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- 2 VIRTUAL MACHINE ISOLATION
  Each environment runs on a dedicated
  VM which is automatically suspended
  and deleted when not in use to reduce
  costs.



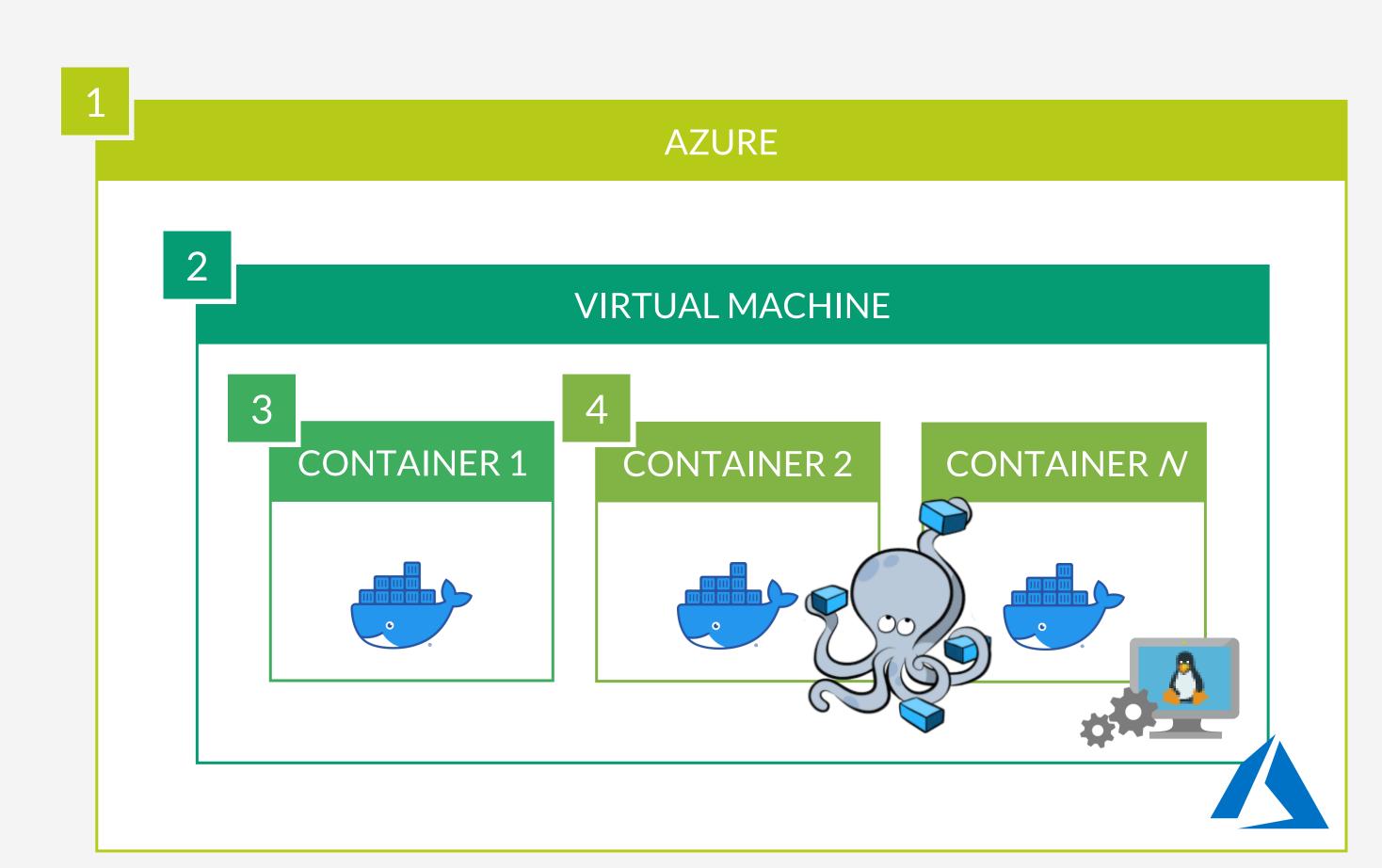
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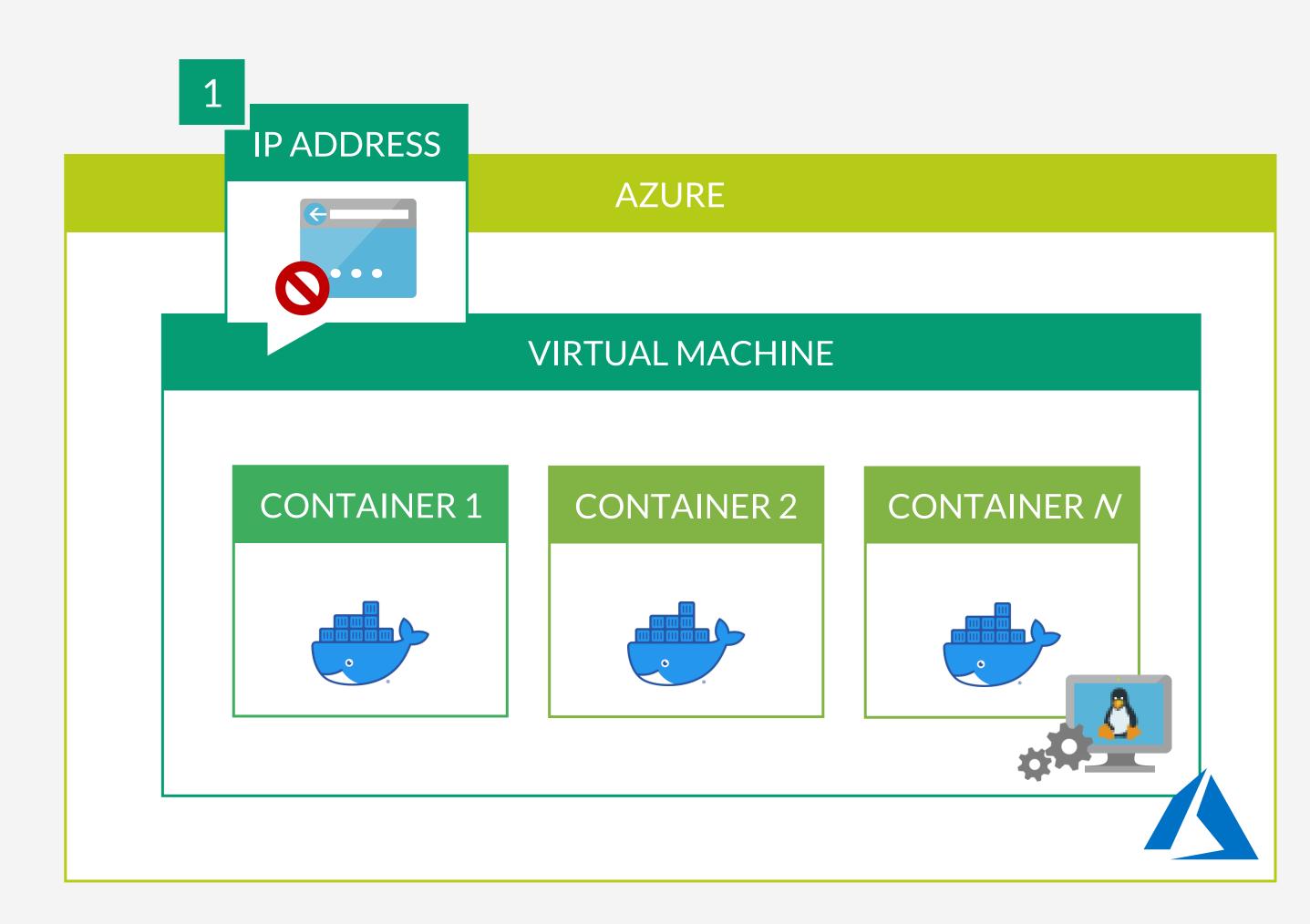
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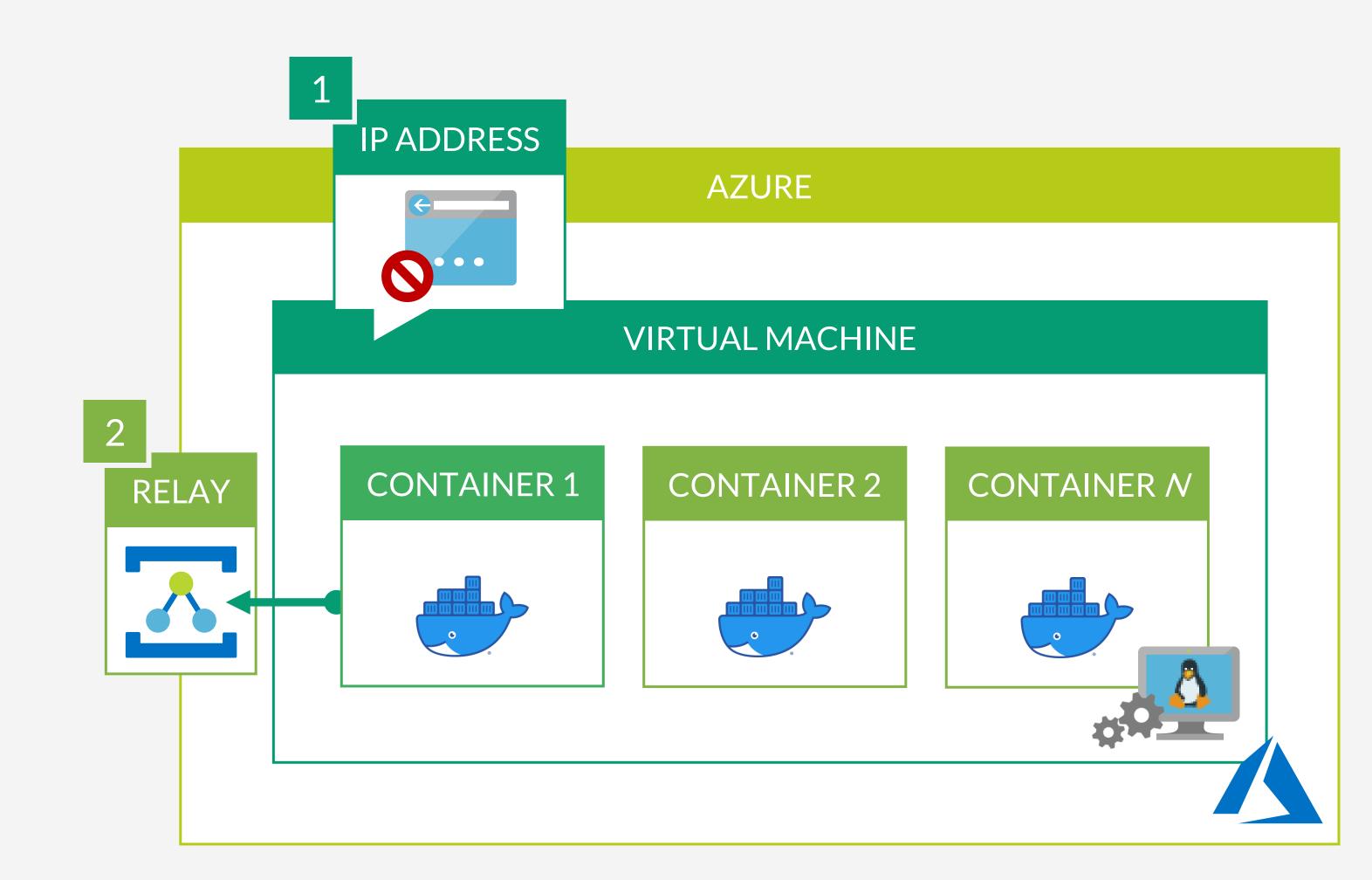
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- COMPOSED ENVIRONMENTS
  Compose together complex
  development environments with
  Docker Compose support.\*



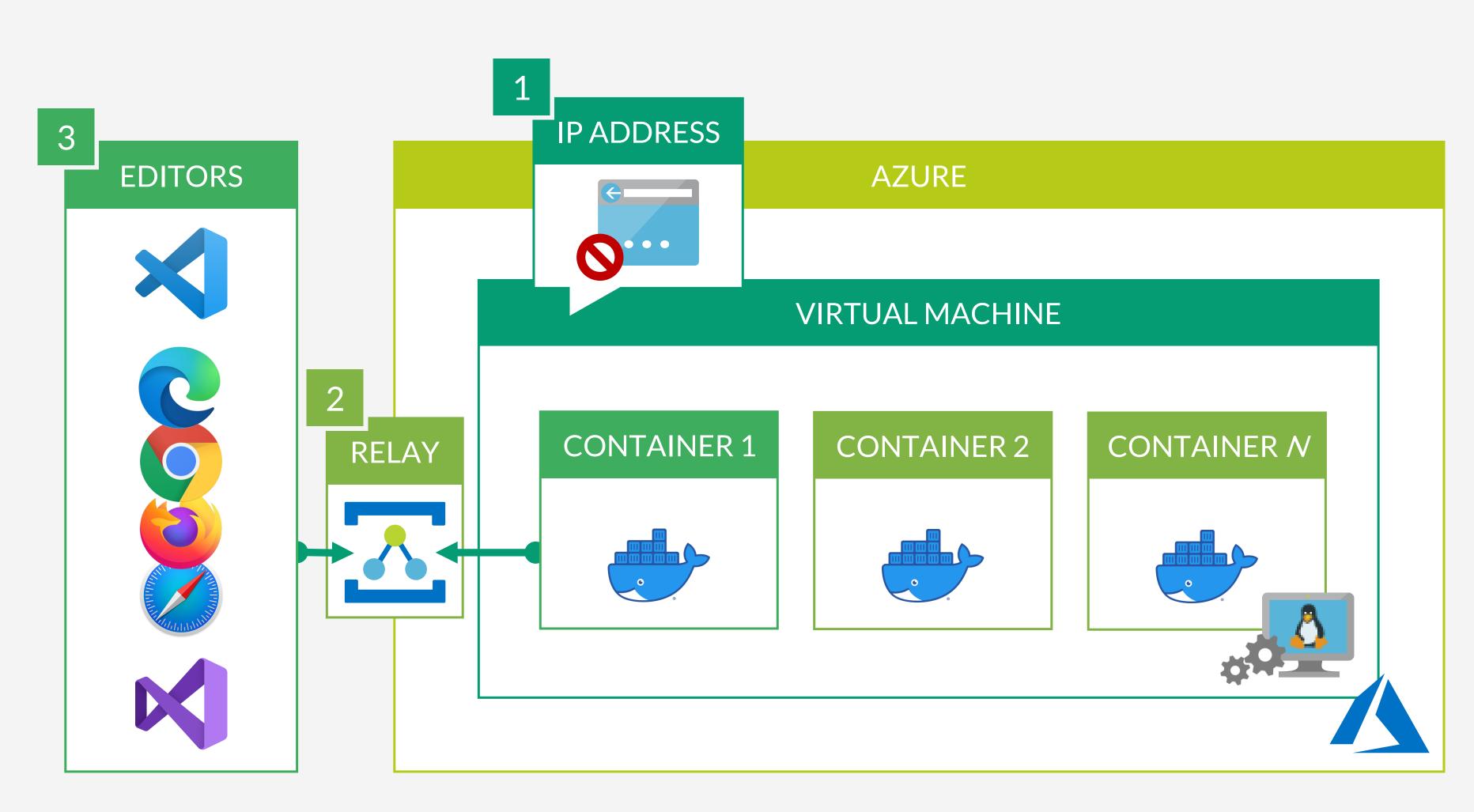
NO PUBLIC IP ADDRESS
Environments are not addressable via a public IP.



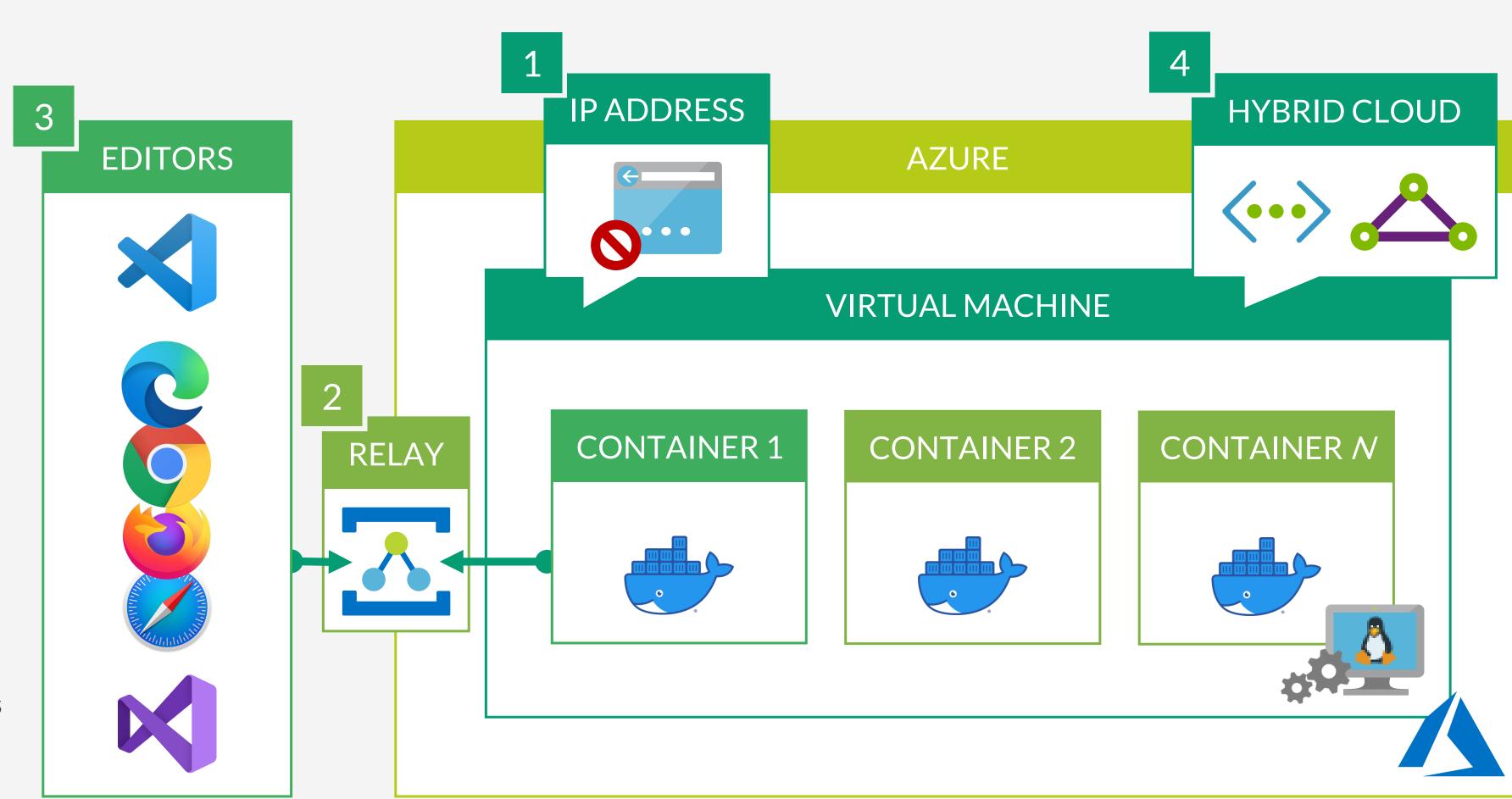
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  - End-to-end Encrypted
  - ✓ Authenticated
  - Authorized



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- CONNECTED CLIENTS
  Clients also leverage Azure Relay to eliminate intrusive changes to firewall and network infrastructure.

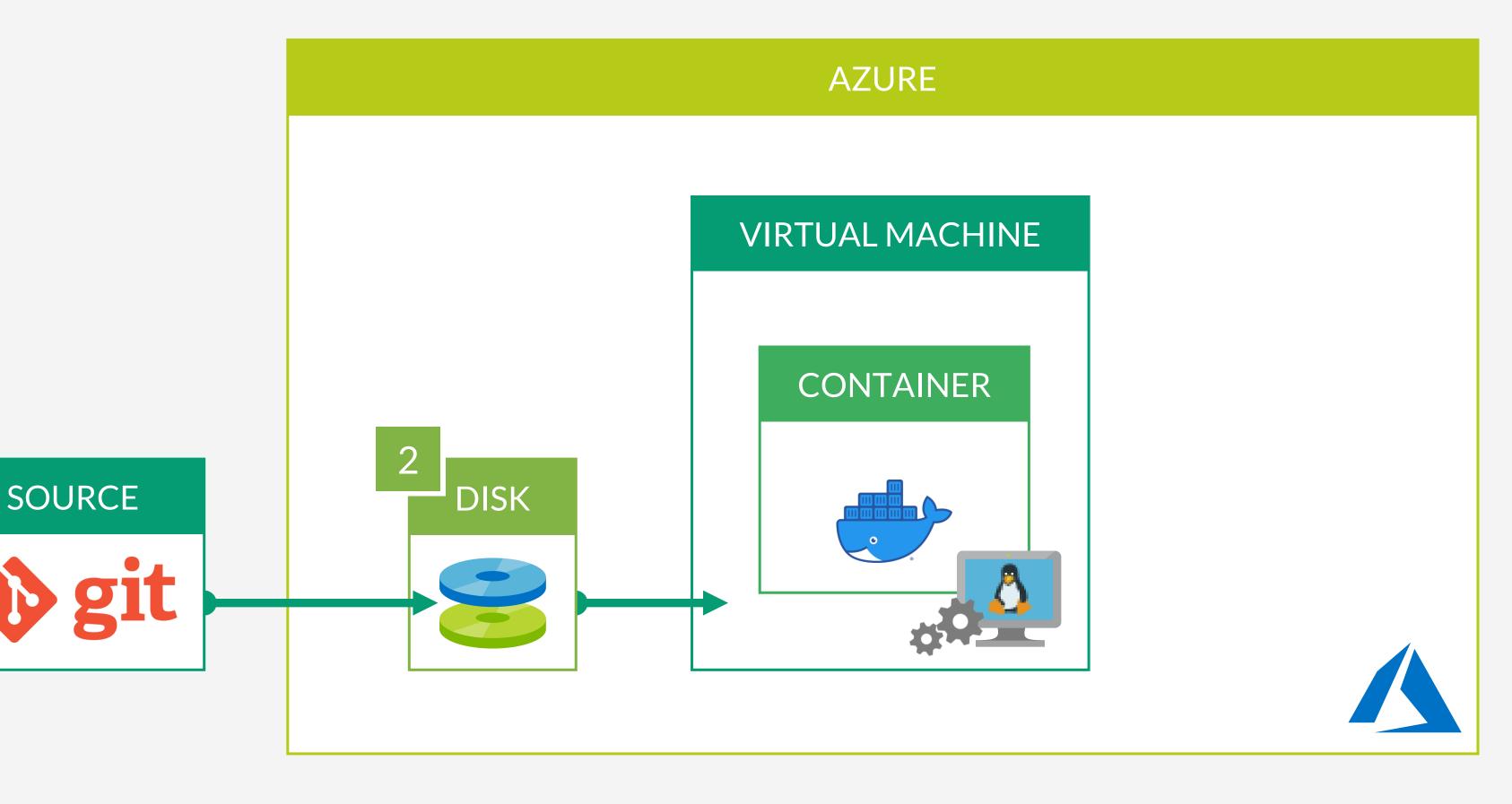


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- HYBRID CLOUD
  Private <u>virtual networks</u> and connections (via <u>ExpressRoute</u>).\*

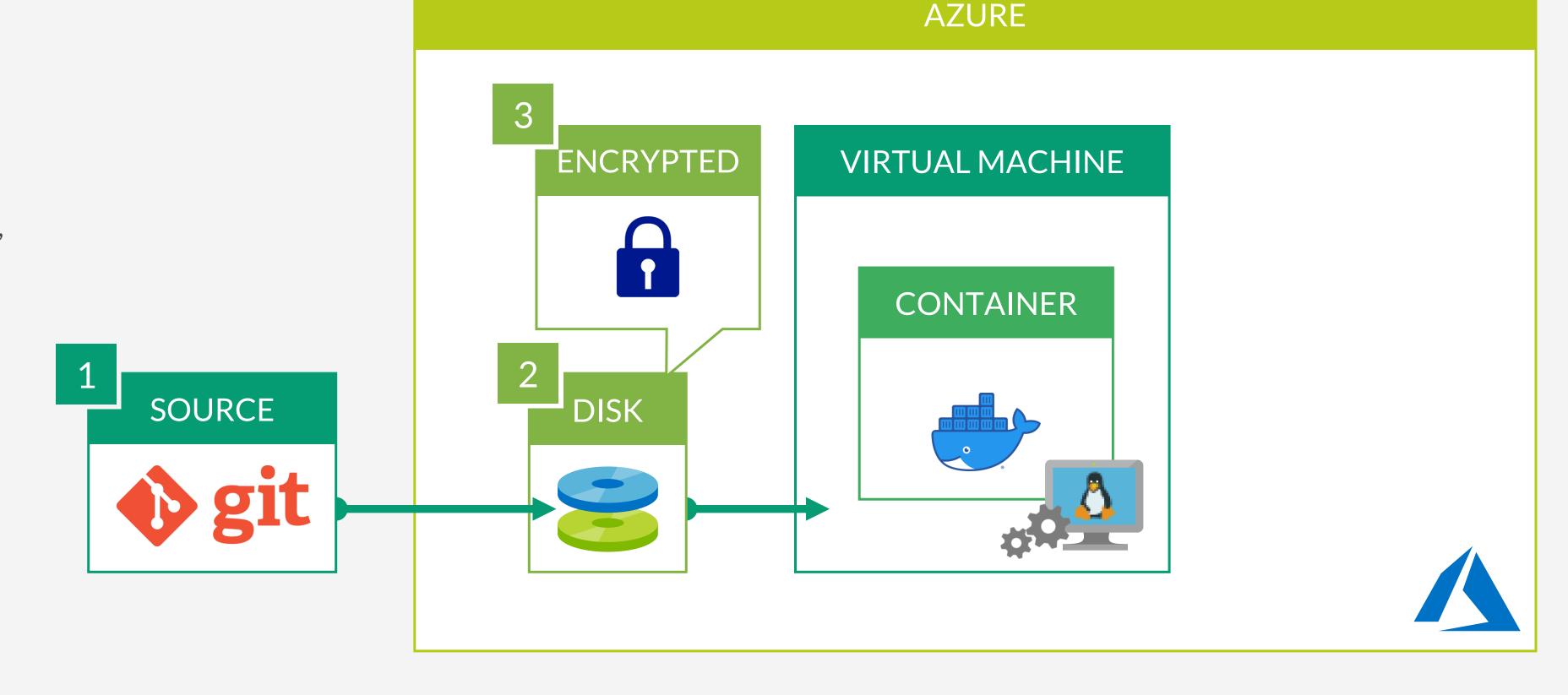


SOURCE OF TRUTH AZURE VS Online leverages existing **Git** repositories as the source of truth. VIRTUAL MACHINE CONTAINER SOURCE DISK

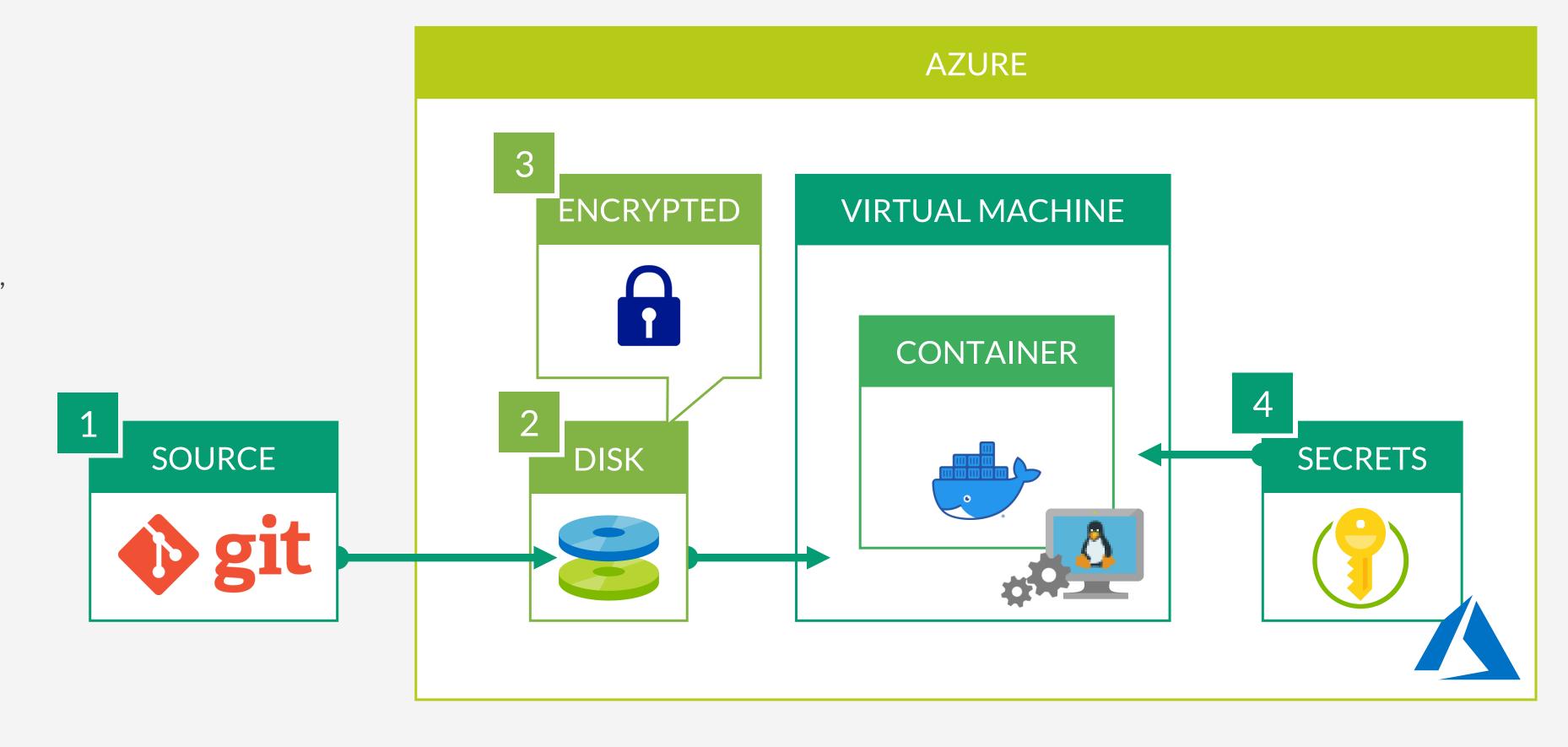
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- SAFEGAURDED SECRETS
  Configured variables and keys are stored within Azure Key Vault and exposed within the container.\*

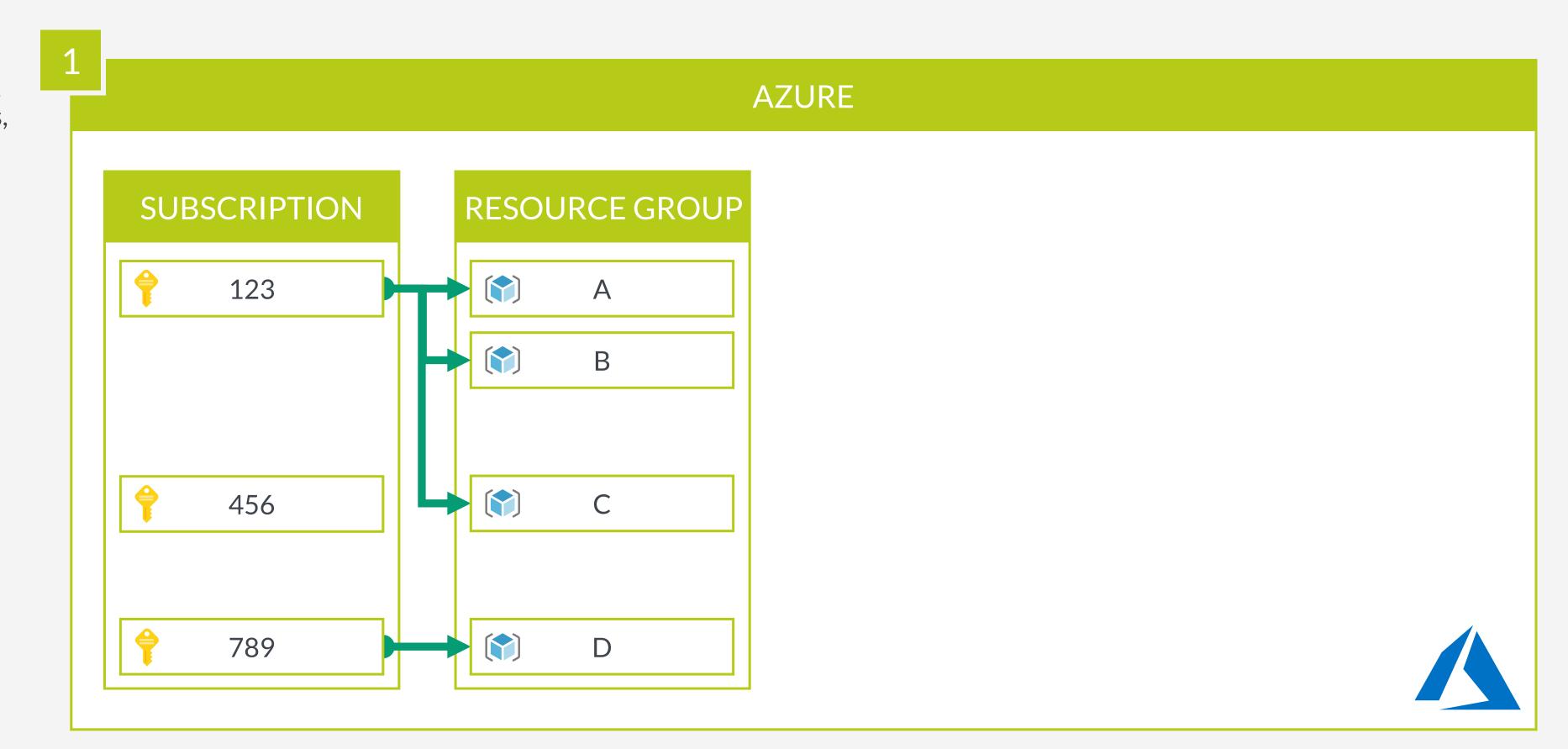


# VISUAL STUDIO ONLINE PERMISSIONS

The Flexible Organization

Use Azure Subscriptions and Resource

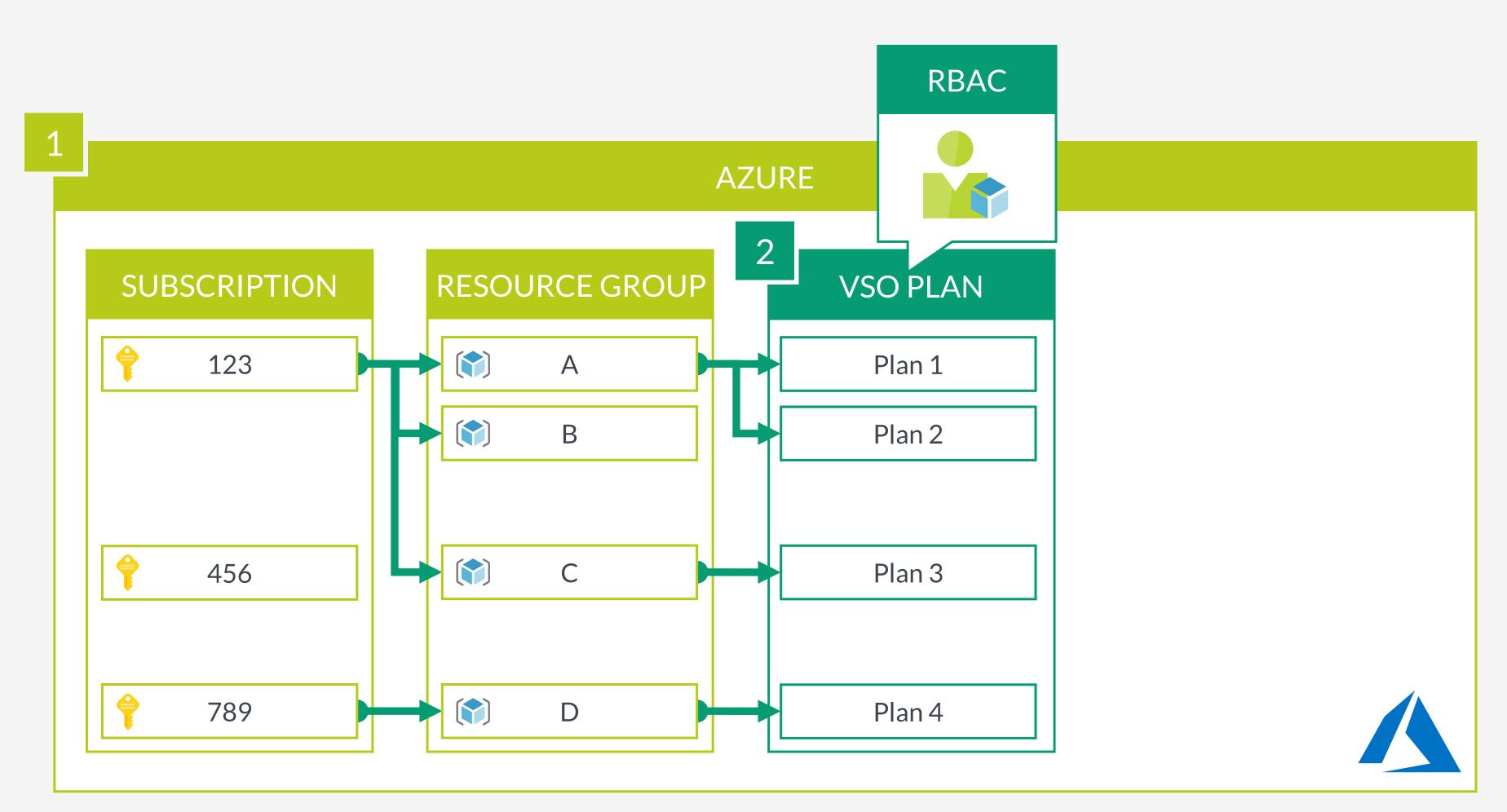
Groups to organize across cost centers, divisions and users.



# VISUAL STUDIO ONLINE PERMISSIONS

- 1 FLEXIBLE ORGANIZATION
  Use Azure Subscriptions and Resource
  Groups to organize across cost centers,
  divisions and users.
- 2 CONTROL WITH PLANS

  VS Online Plans group environments
  together to allow simple role-based
  access control and policy enforcement.\*

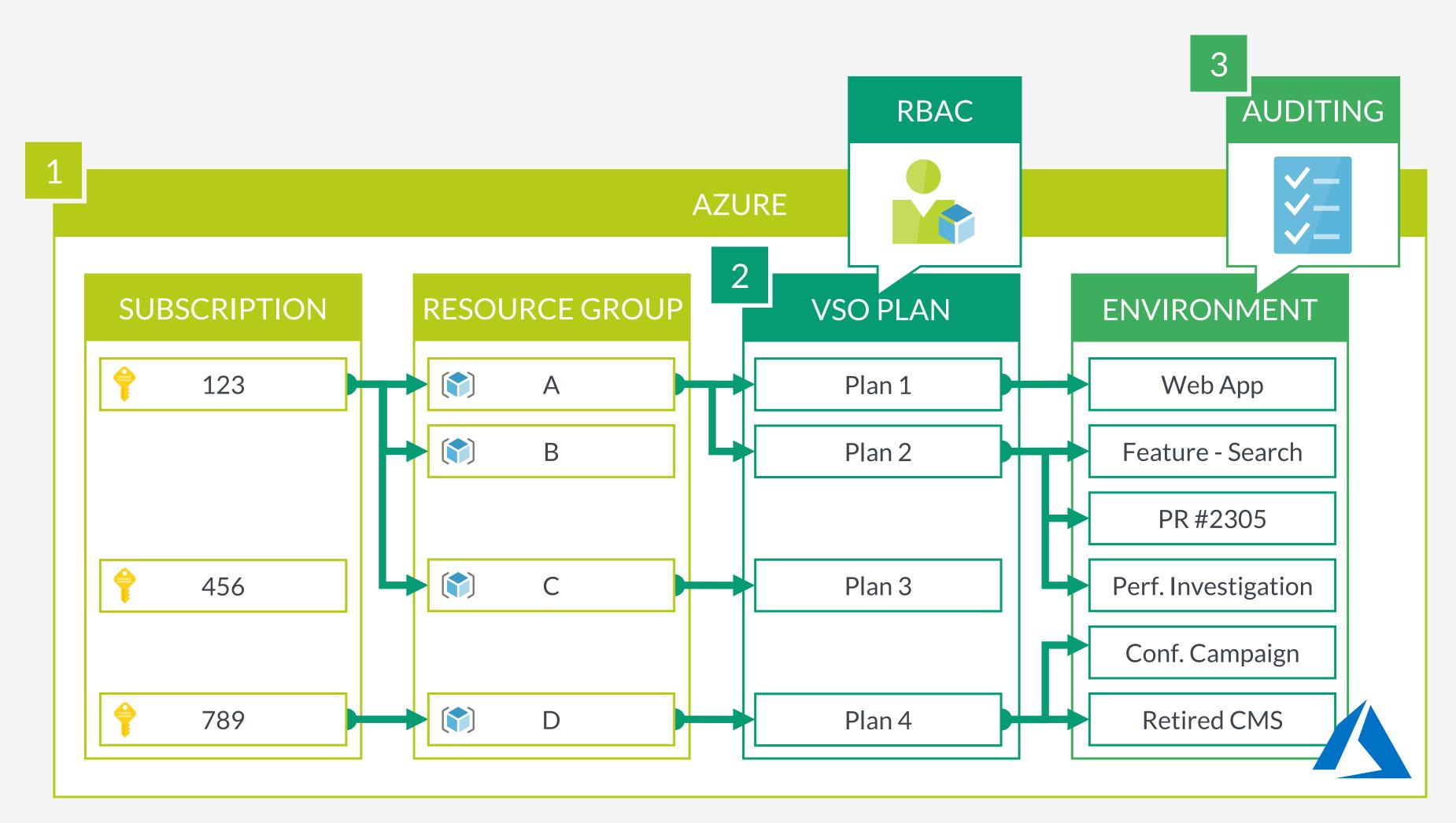




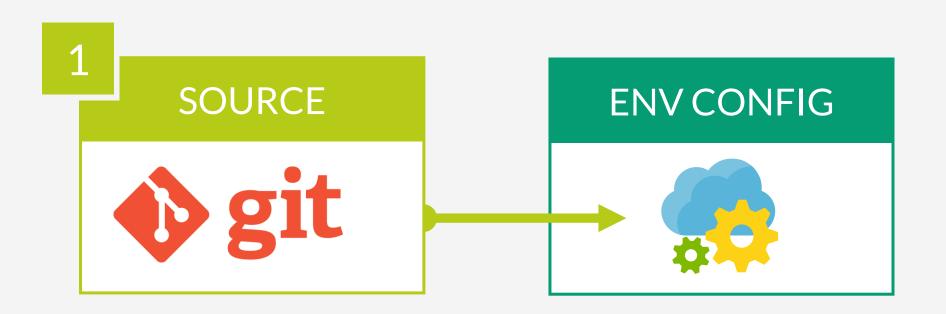
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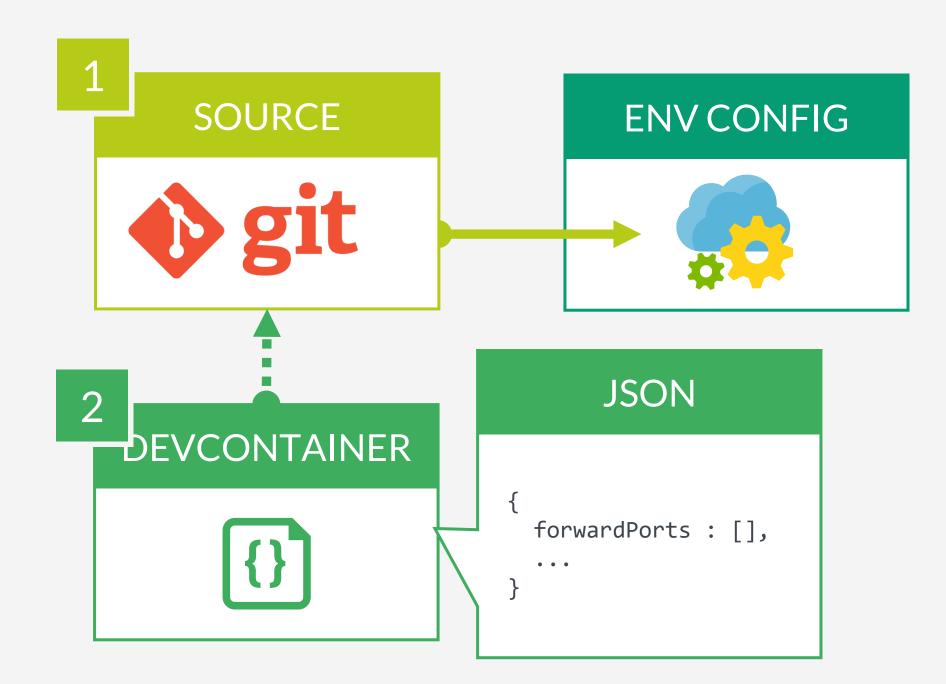
  VS Online Plans group environments
  together to allow simple role-based
  access control and policy enforcement.\*
- AUDIT LOGS
  Creation, deletion and access to environments is logged for increased transparency.\*



"GIT-OPS"
Configuration is versioned in Git. Git credentials are proxied from the client machine, not stored in the environment.



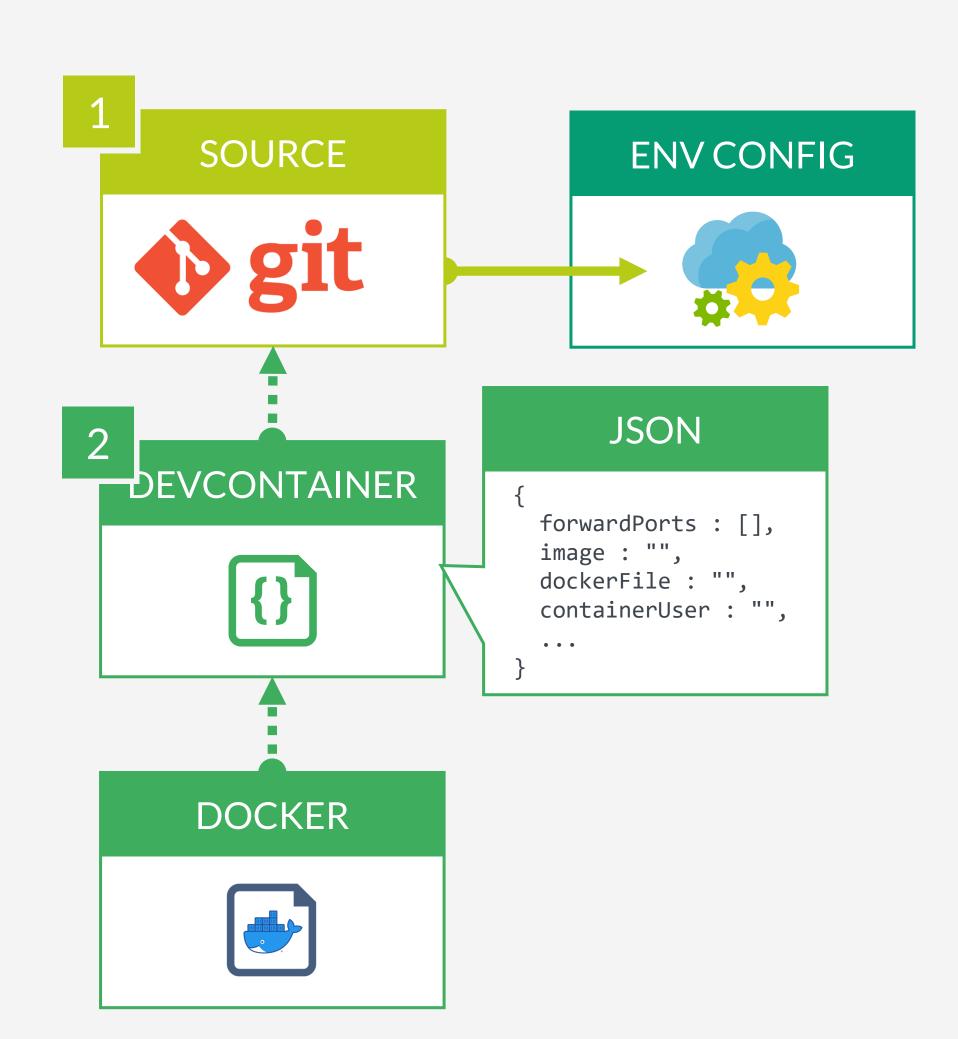
- "GIT-OPS"
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- 2 SECURE BY DEFAULT
  Configure devcontainer.json to
  expose ports to client machine and
  customize environment container/user.



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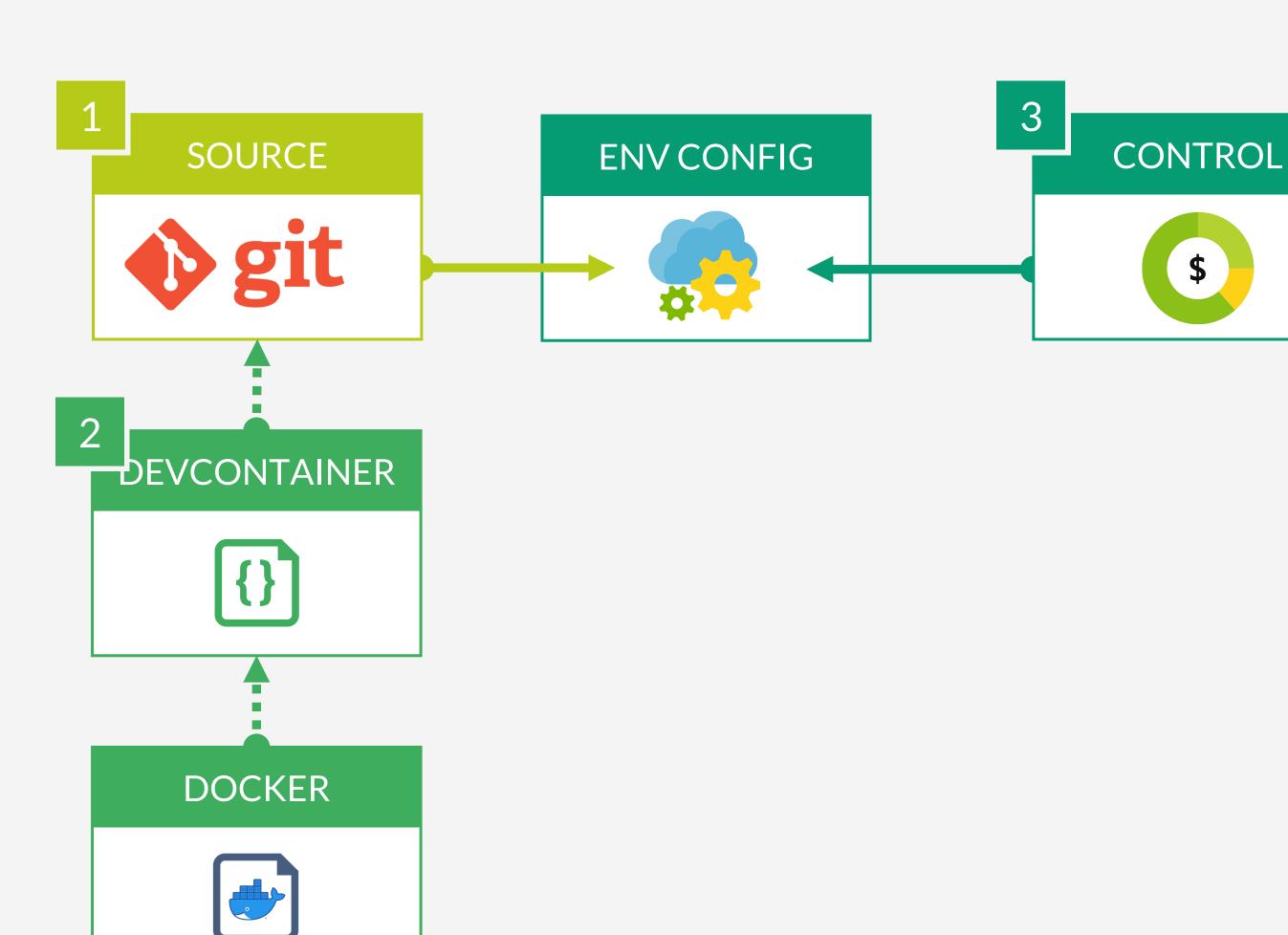
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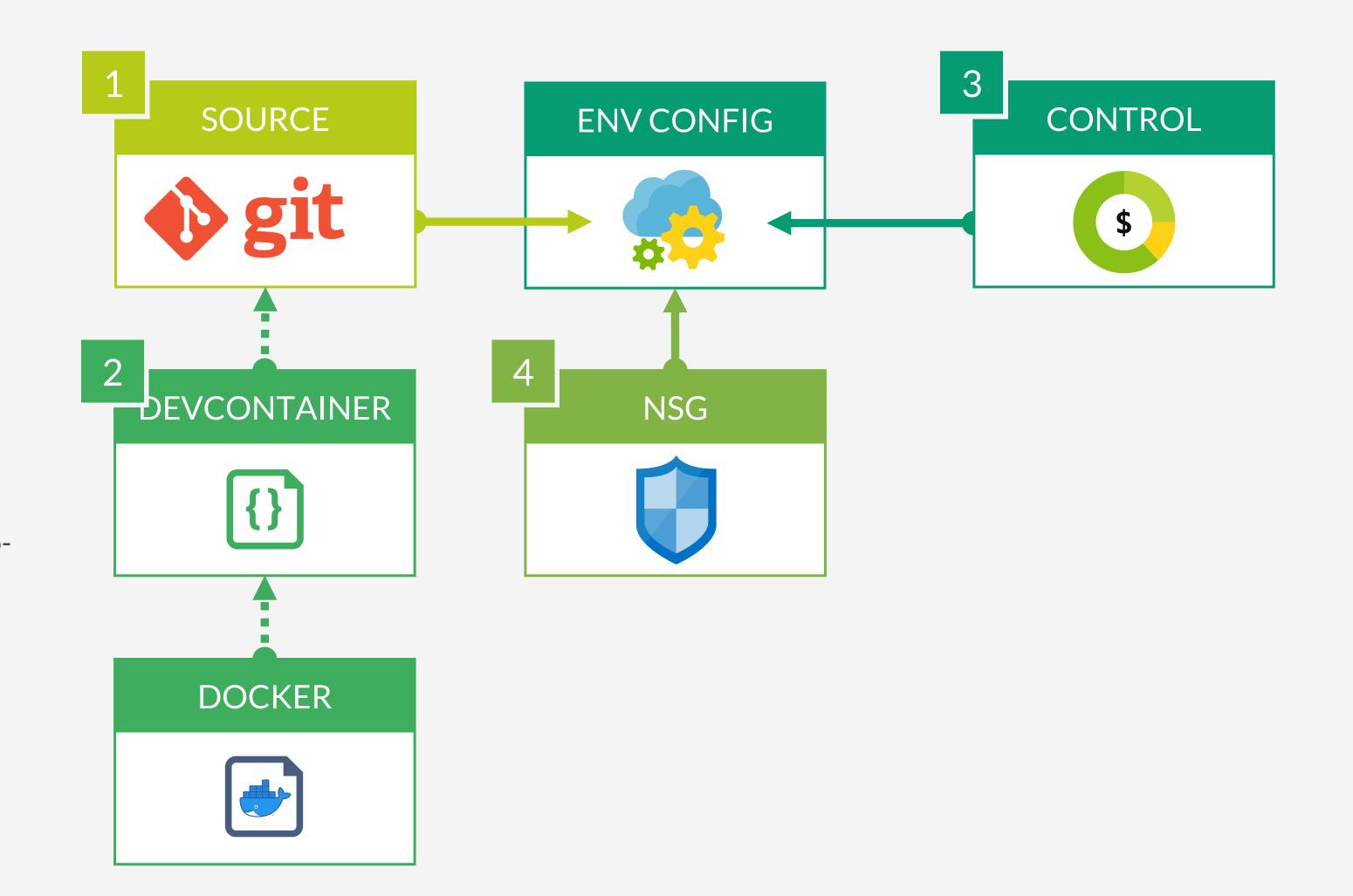
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- 3 COST CONTROL
  Select the virtual machine (Basic,
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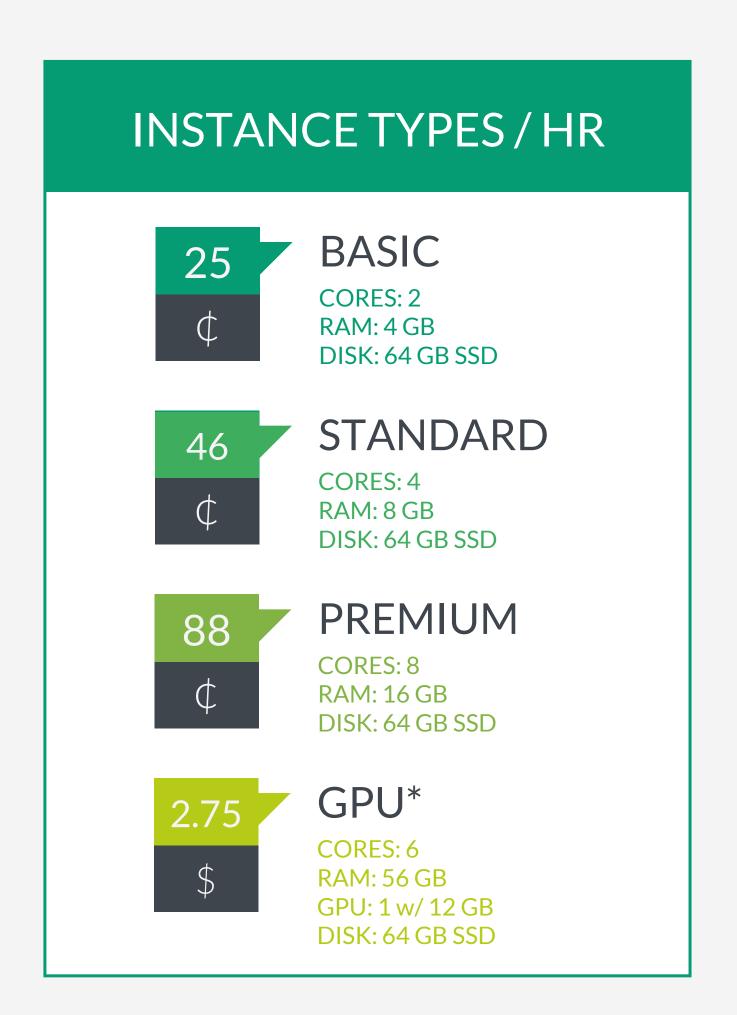
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  Select the virtual machine (Basic,
  Standard, Premium or GPU) and the autosuspension policy per environment.
- A NETWORK SECURITY GROUP
  Filter outbound network traffic by destination, protocol or port.\*

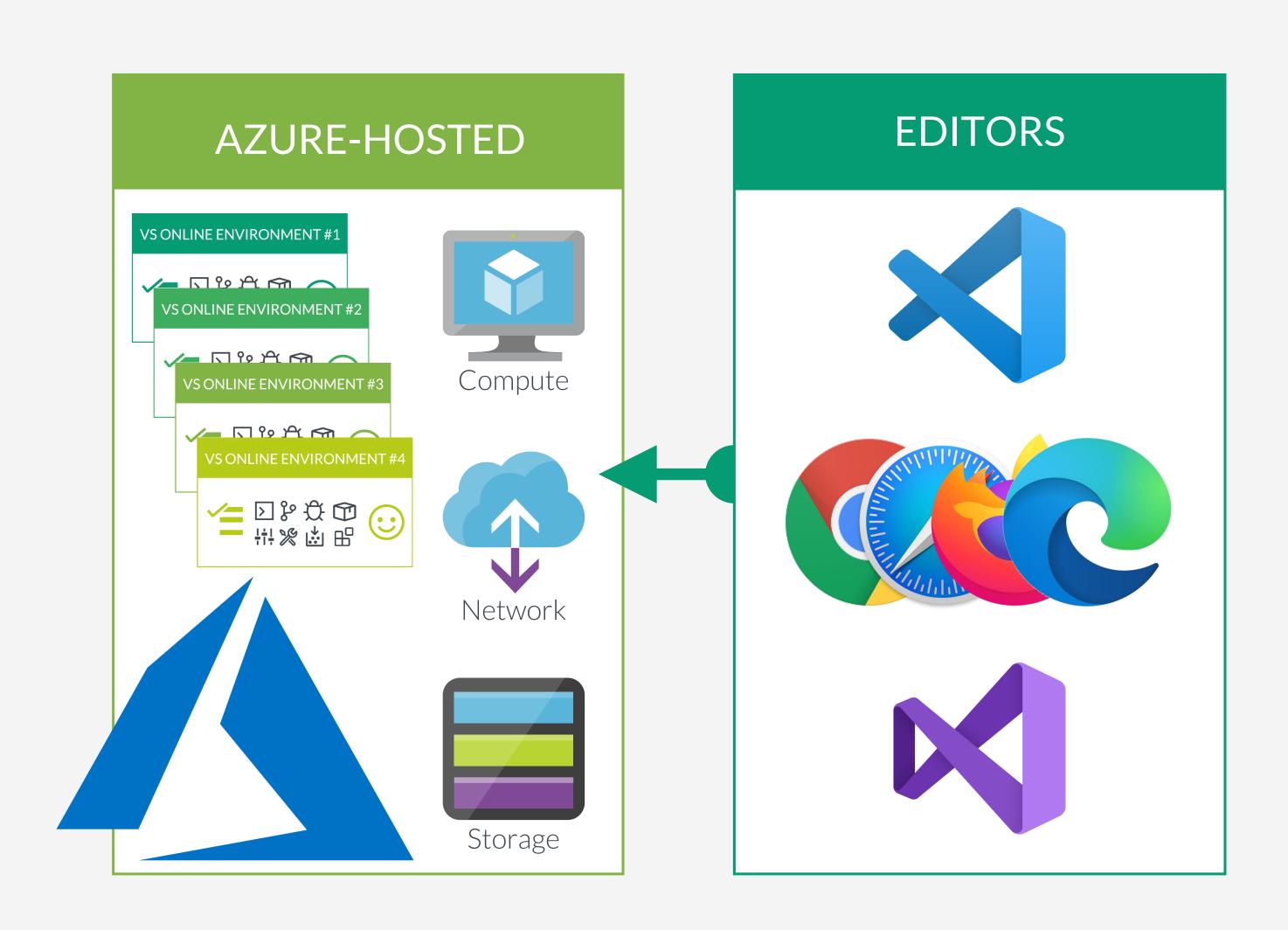


# VISUAL STUDIO ONLINE GEOGRAPHIES

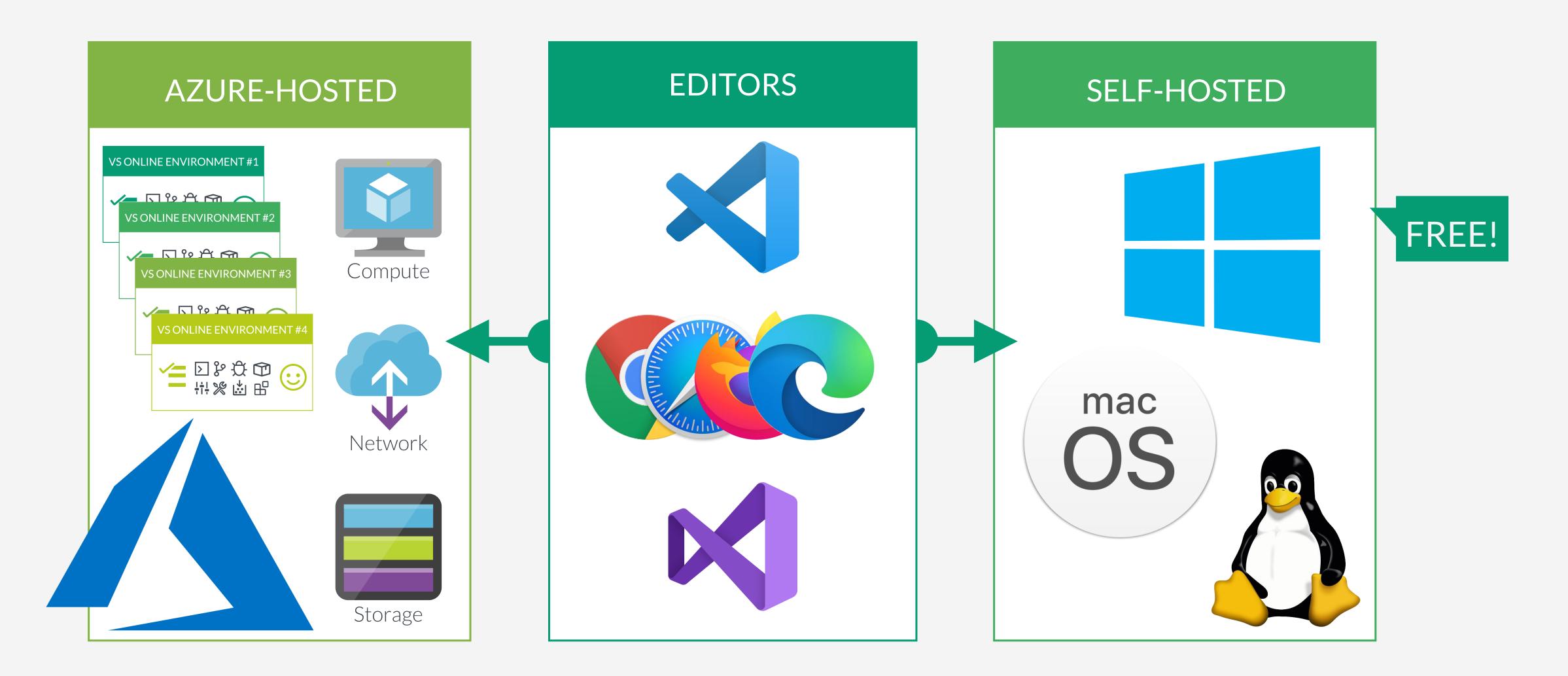


### VISUAL STUDIO ONLINE PRICING





# VISUAL STUDIO ONLINE PRICING







#### DEMO

- 1. GITHUB
- 2. LOCAL ENVIRONMENT
- 3. DEVCONTAINER
- 4. DEVOPS
- 5. CODESPACES

## ROADMAP



#### BUILD

- Basic & GPU instances
- Sharable Plans
- Docker Compose support
- Secrets management
- VS Code Settings sync

- Windows environments\*
- VS IDE support\*

#### **IGNITE**

- General availability
- Offline environments
- Retention policies
- vNet Support
- Audit logging

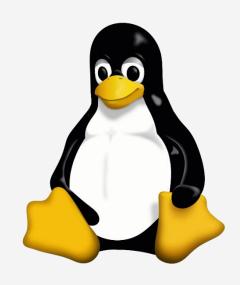
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# SUMMARY + QUESTIONS

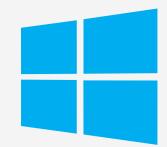
### VISUAL STUDIO ONLINE





PRIVATE PREVIEW
VISUAL STUDIO ONLINE

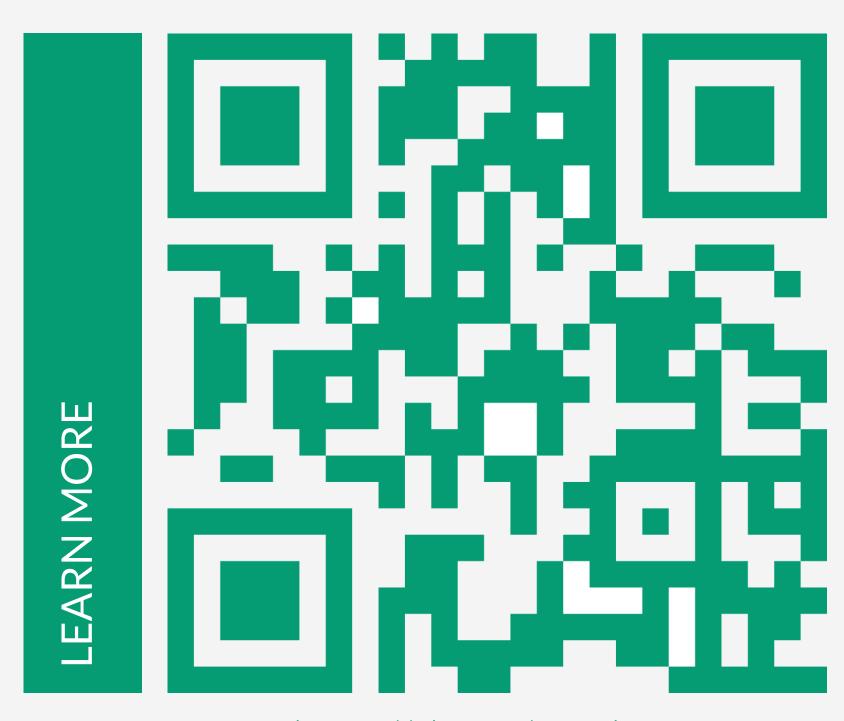




GENERAL AVAILABILITY
LIVE SHARE & INTELLICODE







https://aka.ms/vso-docs